a heat transfer medium interposed between the sub-surface and said focus ring, said heat transfer medium being so disposed so as to improve thermal conductivity between the sub-surface and said focus ring to be higher than in a case with no thermal transfer medium; and

a clamp configured to press said focus ring against the sub-surface,

wherein said cooling mechanism maintains said target substrate and the focus ring at substantially the same temperature.

- 6. (Amended) The device according to claim 22, wherein said heat transfer medium consists essentially of an inert gas or a gas containing part of a composition of a process gas to be supplied around said worktable.
 - 9. (Amended) The device according to claim 1, comprising:

a clamp frame having a contact portion which comes into contact with said focus ring from above, and an extending portion extending downward from the contact portion along a side portion of side worktable.

14. (Amended) A plasma processing apparatus for a semiconductor process, comprising:

a hermetic process chamber;

a supply system configured to supply a process gas into said process chamber;

a supply system configured to supply a process gas into said process chamber;

an exhaust system configured to vacuum-evacuate an interior of said process chamber;

chamber;

an excitation mechanism configured to excite and plasmatize the process gas; a worktable disposed in said process chamber and having a main surface for supporting a target substrate and a sub-surface disposed around the main surface;

a cooling mechanism disposed in said worktable and configured to supply cold to the main surface and the sub-surface;

a focus ring placed on the sub-surface and configured to surround the target substrate on the main surface;

a heat transfer medium interposed between the sub-surface and said focus ring, said heat transfer medium being disposed so as to improve thermal conductivity between the sub-surface and said focus ring to be higher than in a case with no thermal transfer medium; and a clamp configured to press said focus ring against the sub-surface,

wherein said cooling mechanism maintains said target substrate and the focus ring at substantially the same temperature.

19. (Amended) The device according to claim 14, comprising:

a clamp frame having a contact portion which comes into contact with said focus ring from above, and an extending portion extending downward from the contact portion along a side portion of side worktable.

Please add new claims 21-24 as follows:

,21. (New) The device according to claim 1, wherein said clamp comprises an outer cover consisting essentially of a heat-resistant synthetic resin.

22. (New) A worktable device for a semiconductor process, comprising:

a worktable having a main surface for supporting a target substrate and a sub-surface disposed around said main surface;

a cooling mechanism disposed in said worktable and configured to supply cold to the main surface and the sub-surface;

a ring body placed on the sub-surface and configured to surround the target substrate on the main surface; and

a heat transfer medium interposed between the sub-surface and said ring body, said heat transfer medium being so disposed as to improve thermal conductivity between the sub-surface and said ring body to be higher than in a case with no thermal transfer medium,

wherein said heat trænsfer medium consists essentially of a heat trænsfer medium gas, and said apparatus further comprises a gas passage, formed in said worktable, in order to supply the heat trænsfer medium gas between the sub-surface and said ring body.

- 23. (New) The device according to claim 22, wherein said heat transfer medium consists essentially of an inert gas or a gas containing part of a composition of a process gas to be supplied around said worktable.
- 24. (New) A plasma processing apparatus for a semiconductor process, comprising:
 a hermetic process chamber;
 a supply system configured to supply a process gas into said process chamber,
 an exhaust system configured to vacuum-evacuate an interior of said process
 chamber;

an excitation mechanism configured to excite and plasmatize the process gas; a worktable disposed in said process chamber and having a main surface for supporting a target substrate and a sub-surface disposed around the main surface;

a cooling mechanism disposed in said worktable and configured to supply cold to the main surface and the sub-surface;

a ring body placed on the sub-surface and configured to surround the target substrate on the main surface; and

a heat transfer medium interposed between the sub-surface and said ring body, said heat transfer medium being so disposed as to improve thermal conductivity between the sub-surface and said ring body to be higher than in a case with no thermal transfer medium,